

Program EVALPLOT
(Version 2021-1)

by

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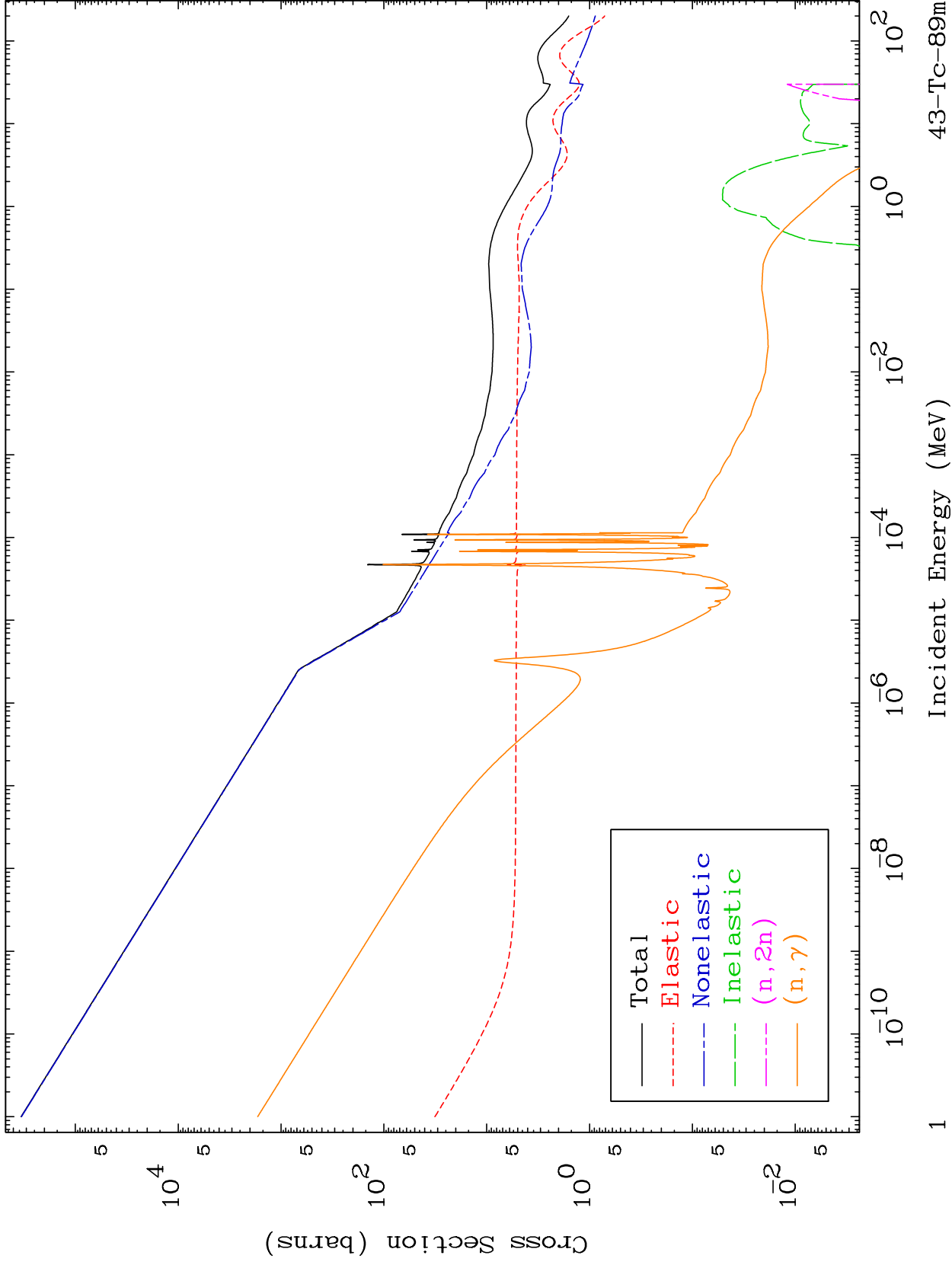
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4296

Neutron Major
293 Kelvin Cross Sections

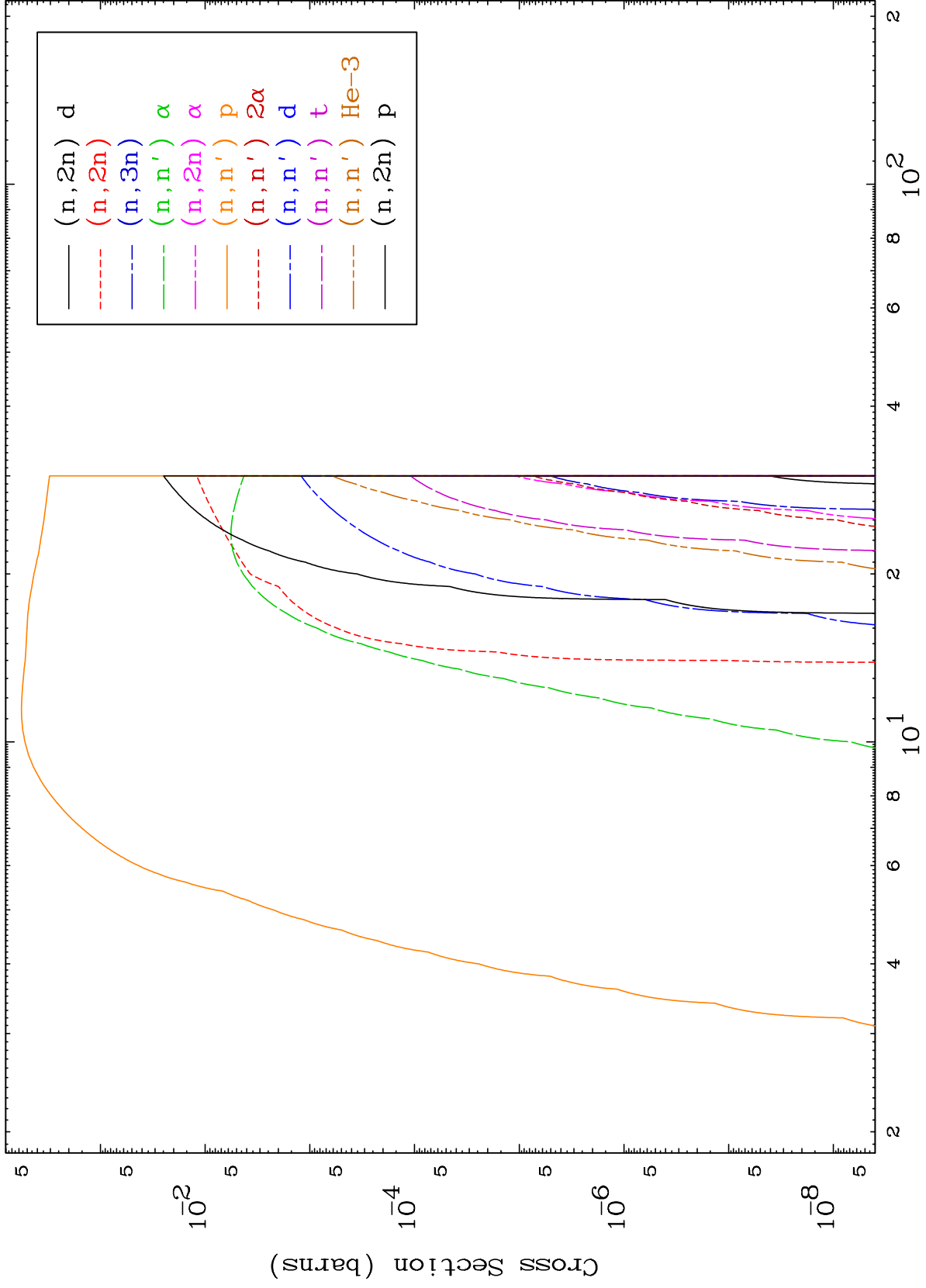
43-Tc-89m



MAT 4296

Neutron Absorption
293 Kelvin Cross Sections

43-Tc-89m



2

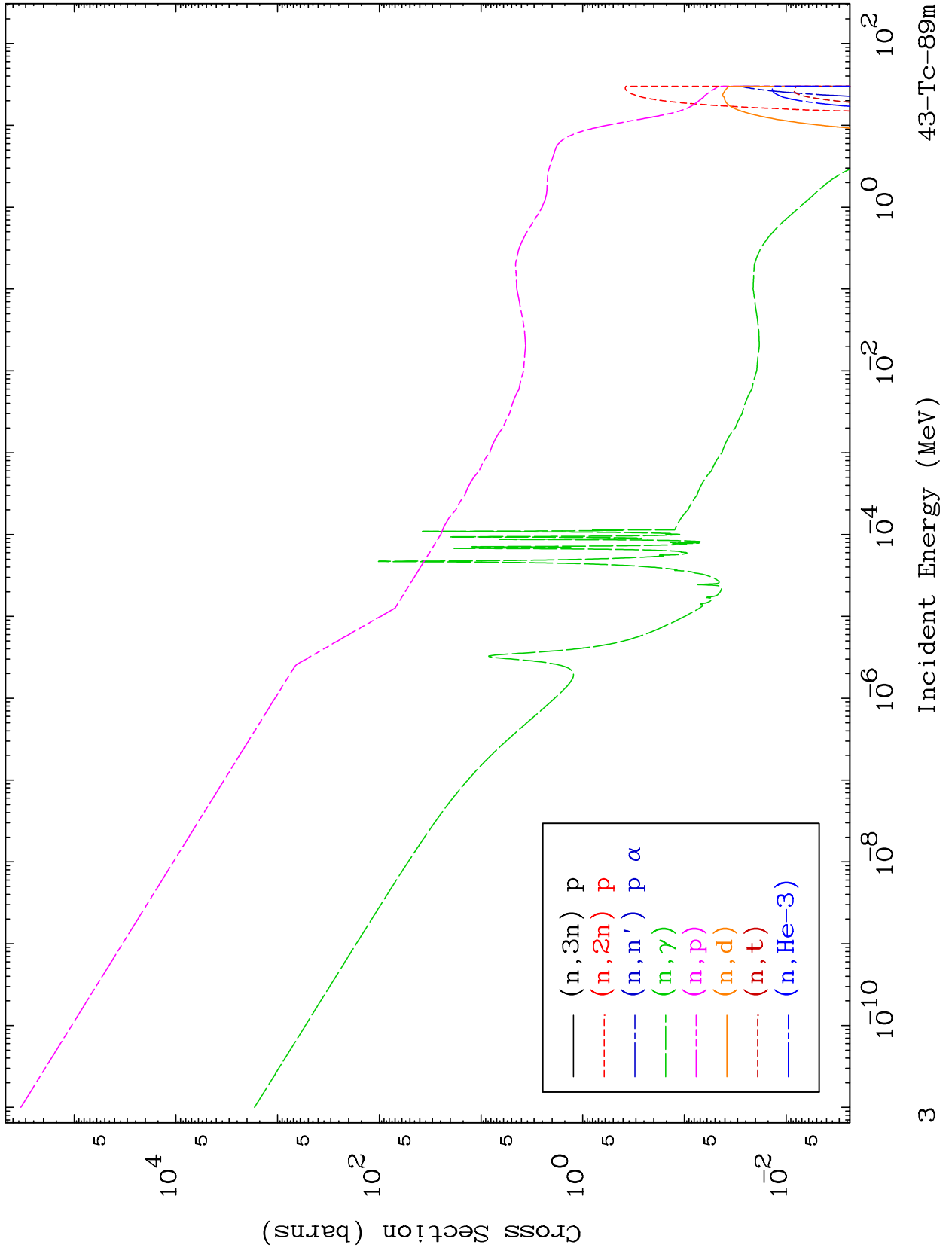
Incident Energy (MeV)

43-Tc-89m

MAT 4296

Neutron Absorption
293 Kelvin Cross Sections

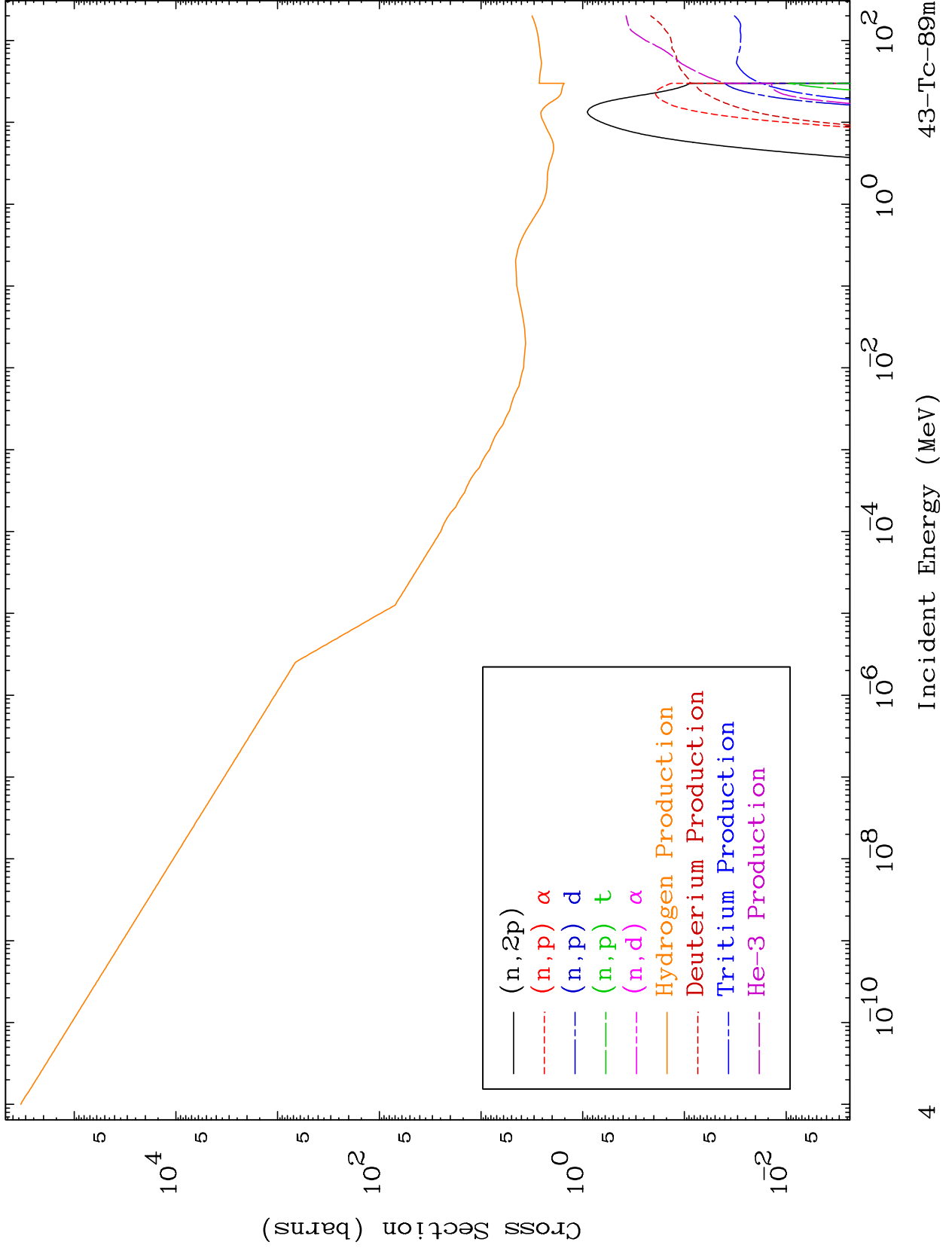
43-Tc-89m



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Neutron Absorption
293 Kelvin Cross Sections

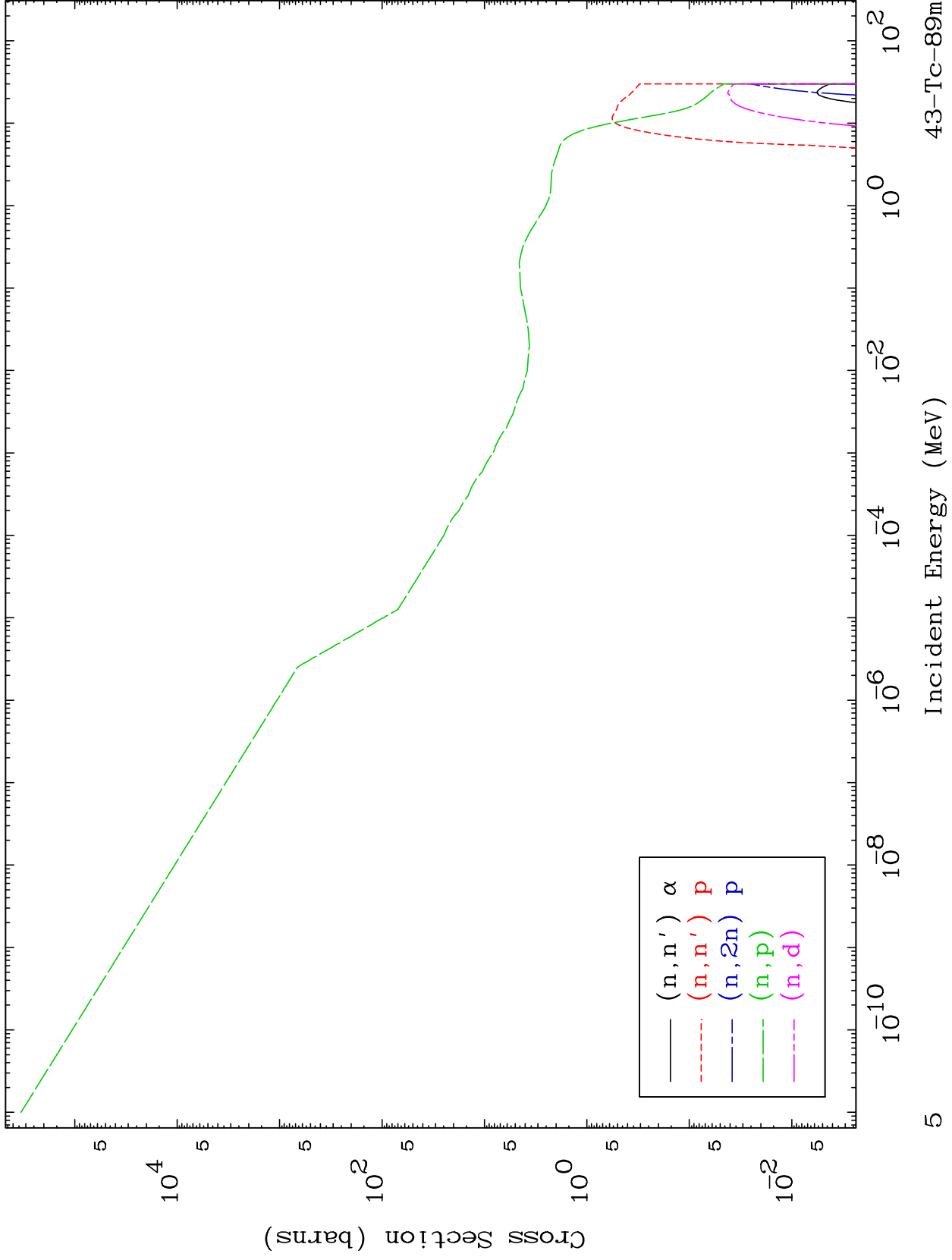
43-Tc-89m



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Charged Particle
293 Kelvin Cross Sections

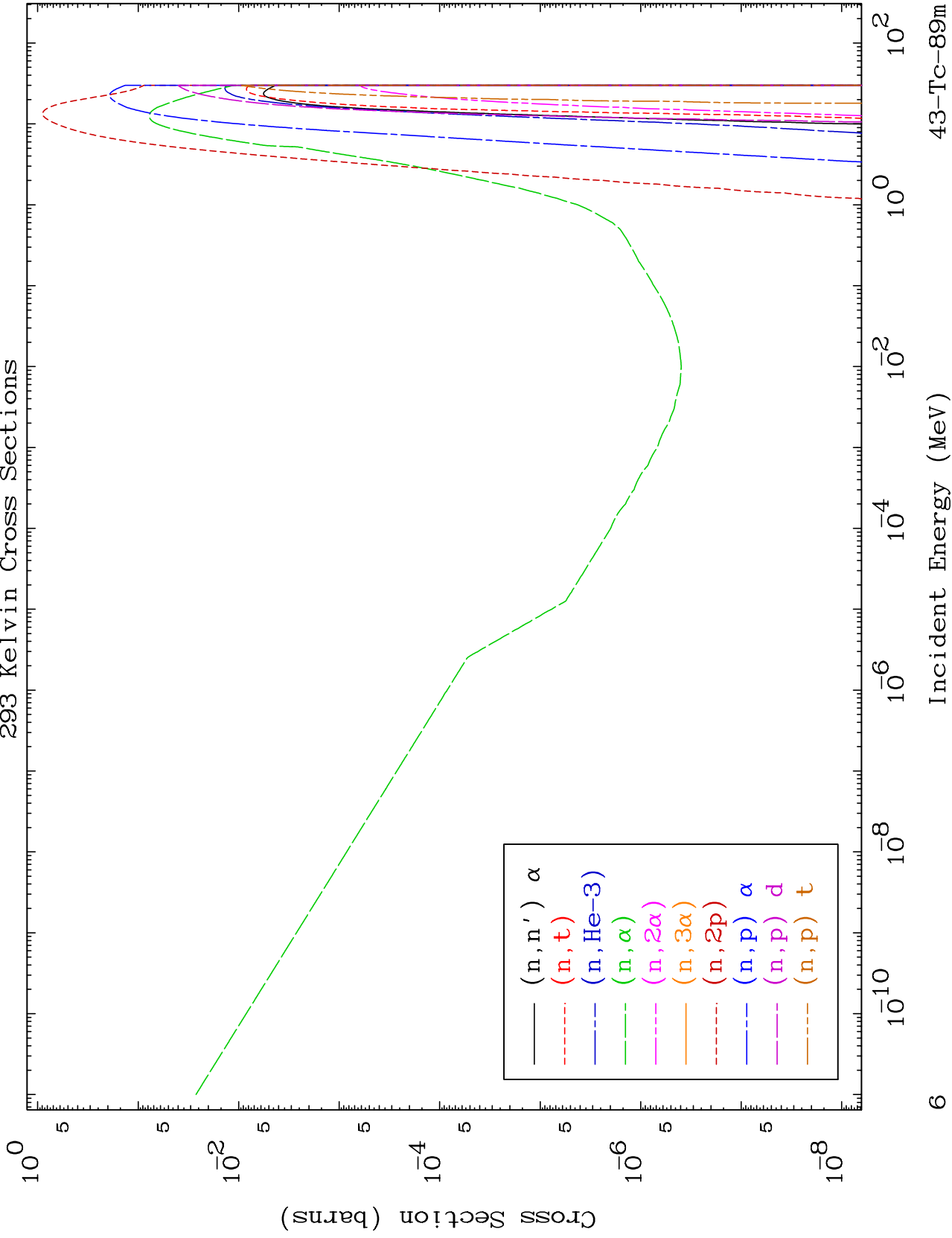
43-Tc-89m



MAT 4296

Charged Particle
293 Kelvin Cross Sections

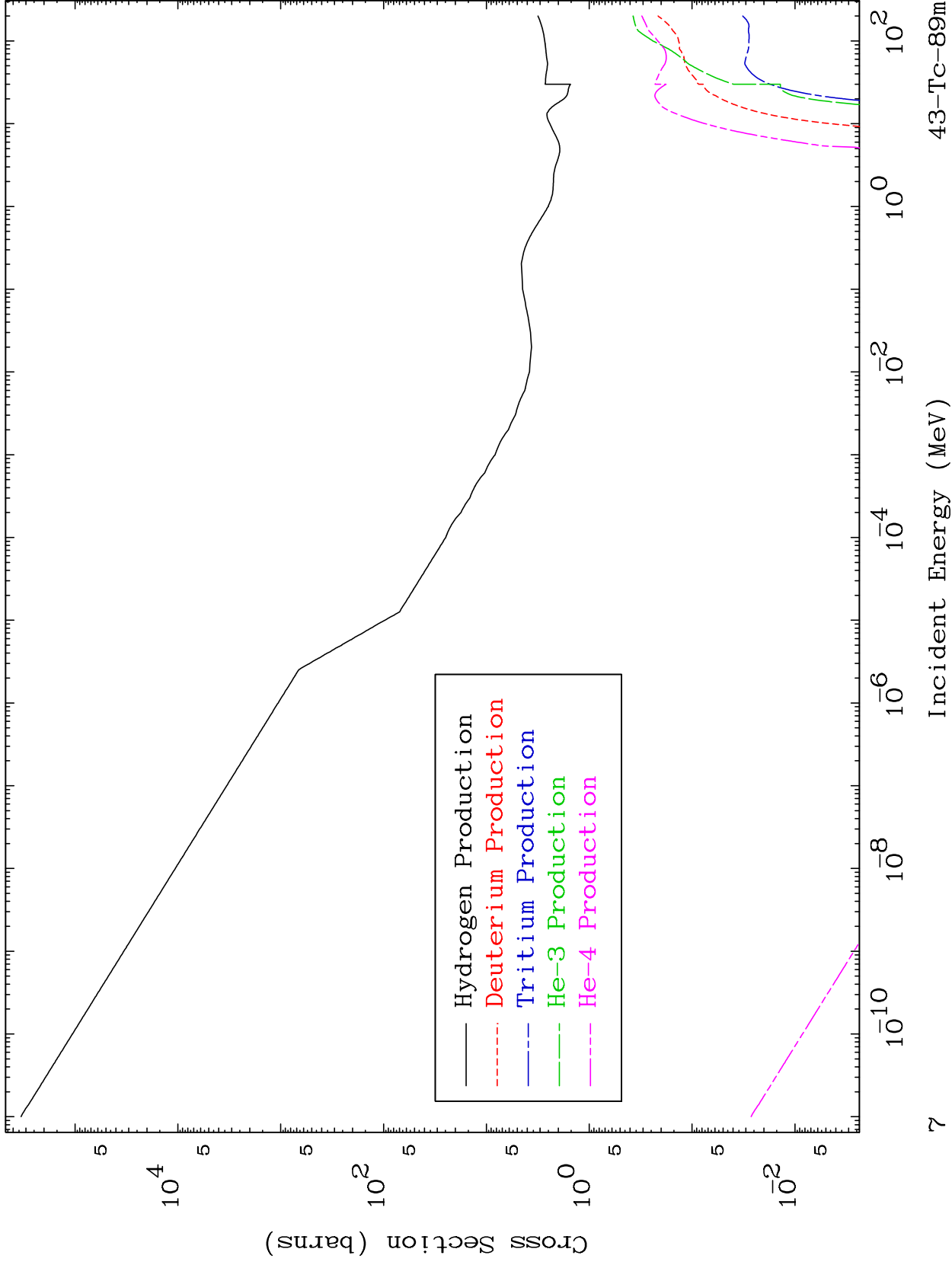
43-Tc-89m



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Particle Production
293 Kelvin Cross Sections

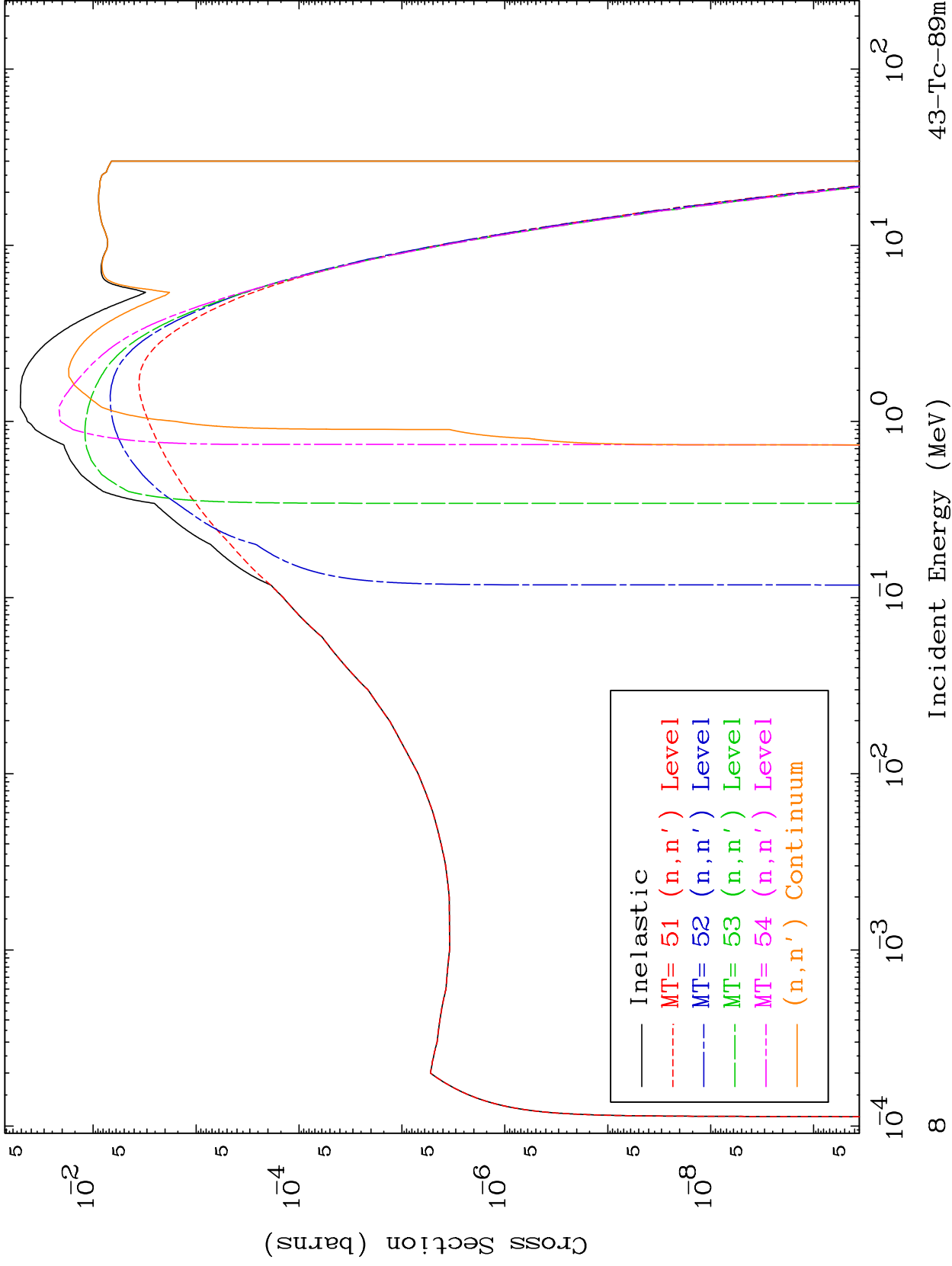
43-Tc-89m



MAT 4296

(n,n') Levels
293 Kelvin Cross Sections

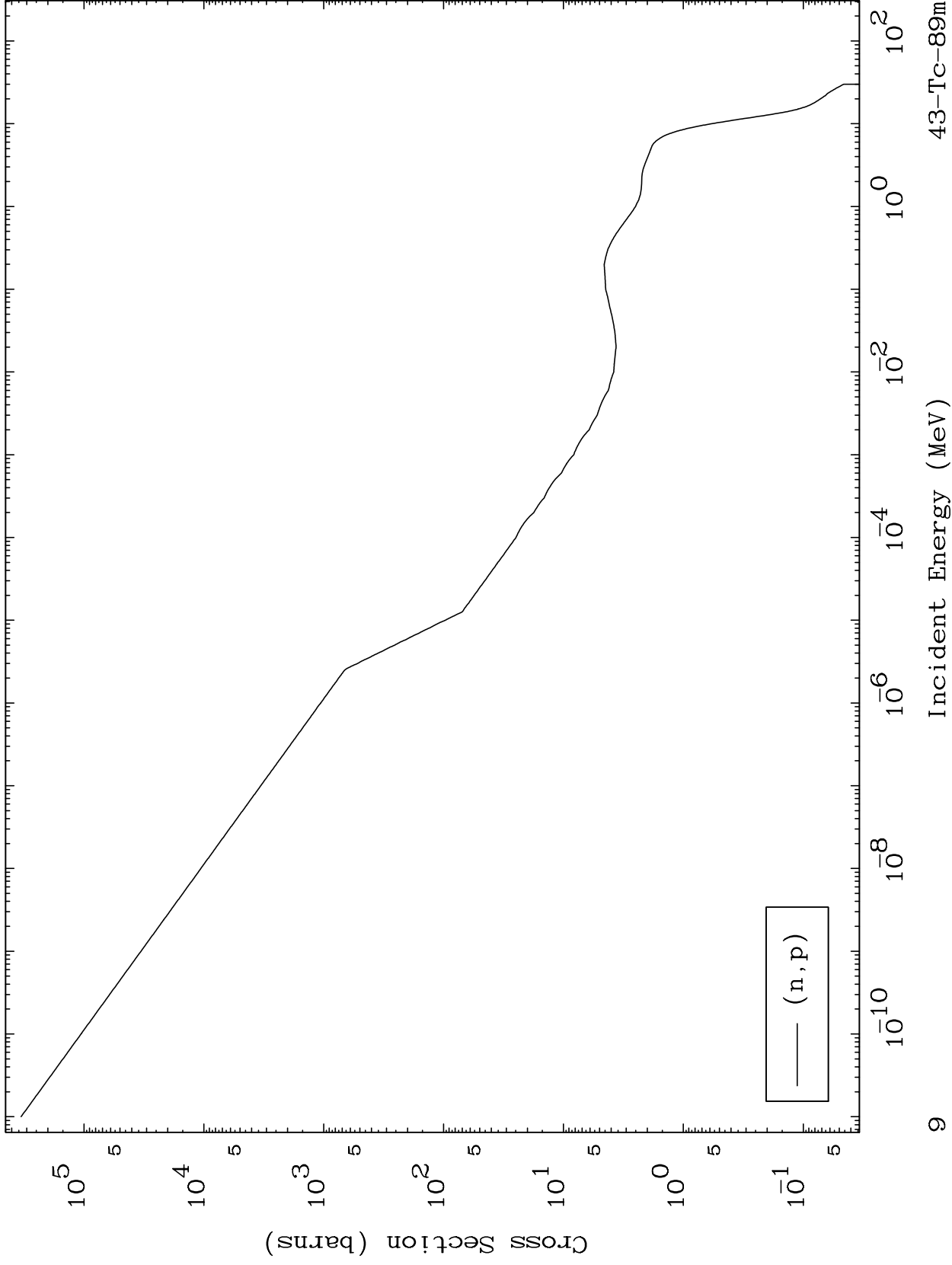
43-Tc-89m



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(n,p) Levels
293 Kelvin Cross Sections

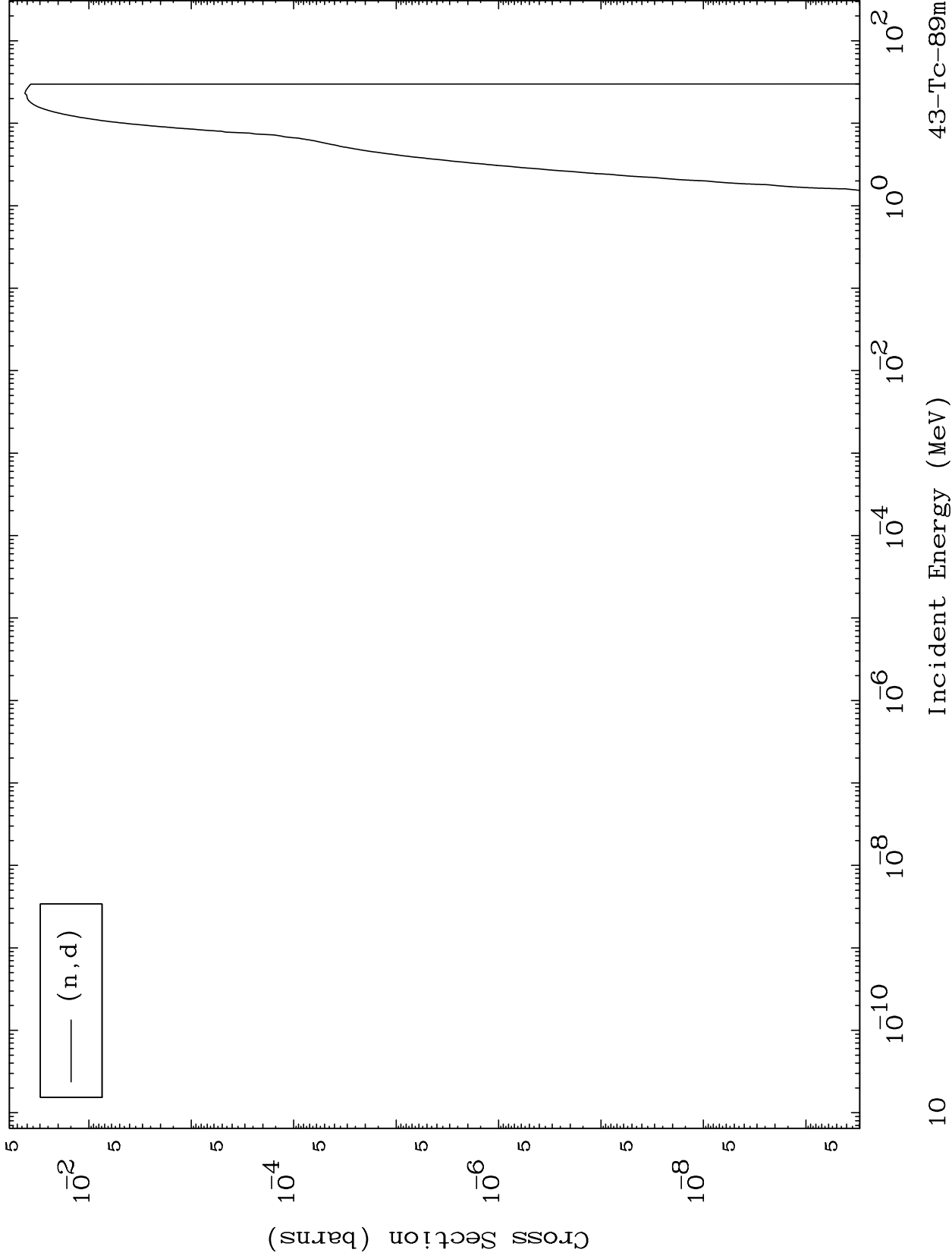
43-Tc-89m



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(n,d) Levels
293 Kelvin Cross Sections

43-Tc-89m



10

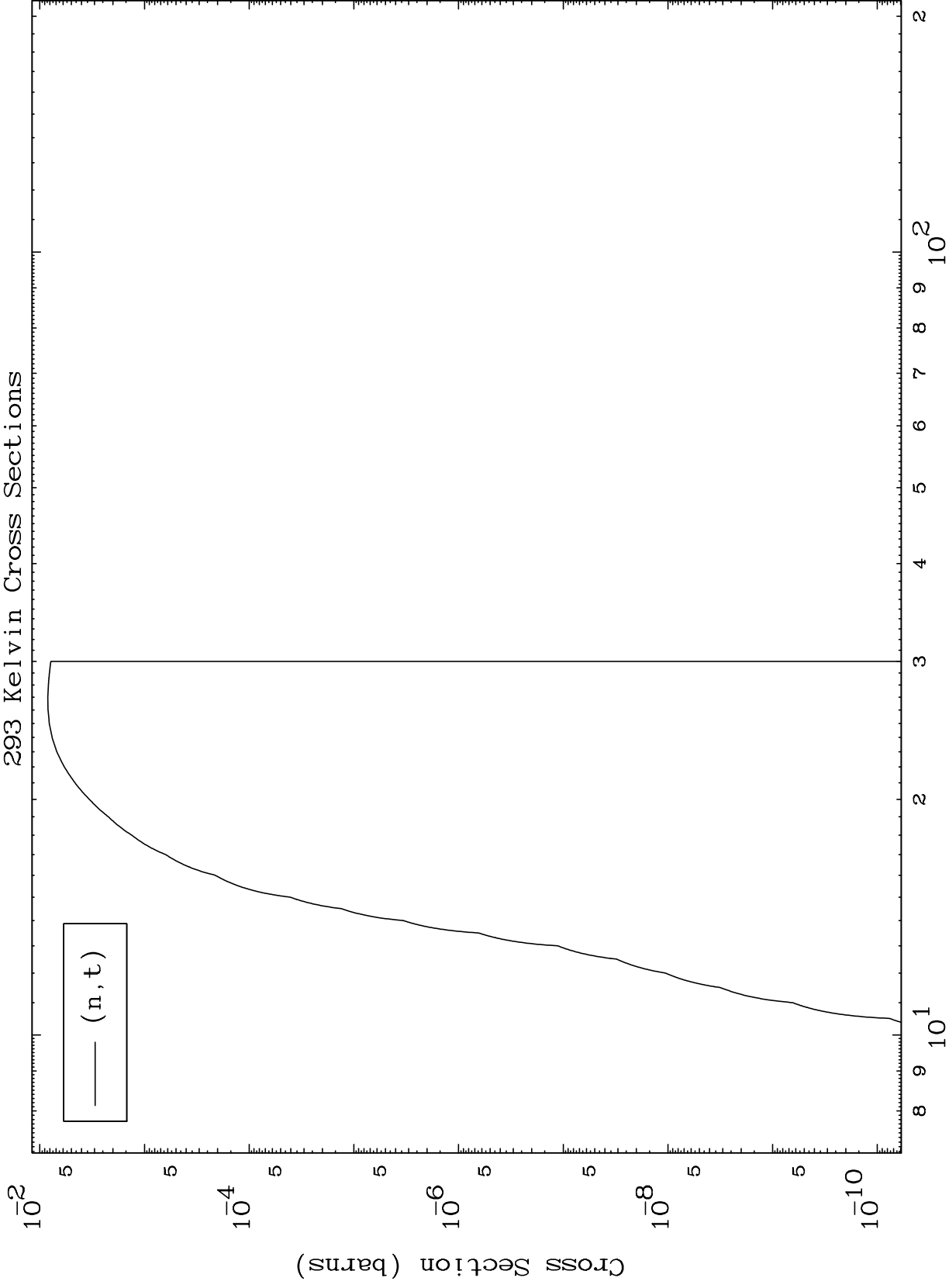
Incident Energy (MeV)

43-Tc-89m

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(n,t) Levels
293 Kelvin Cross Sections

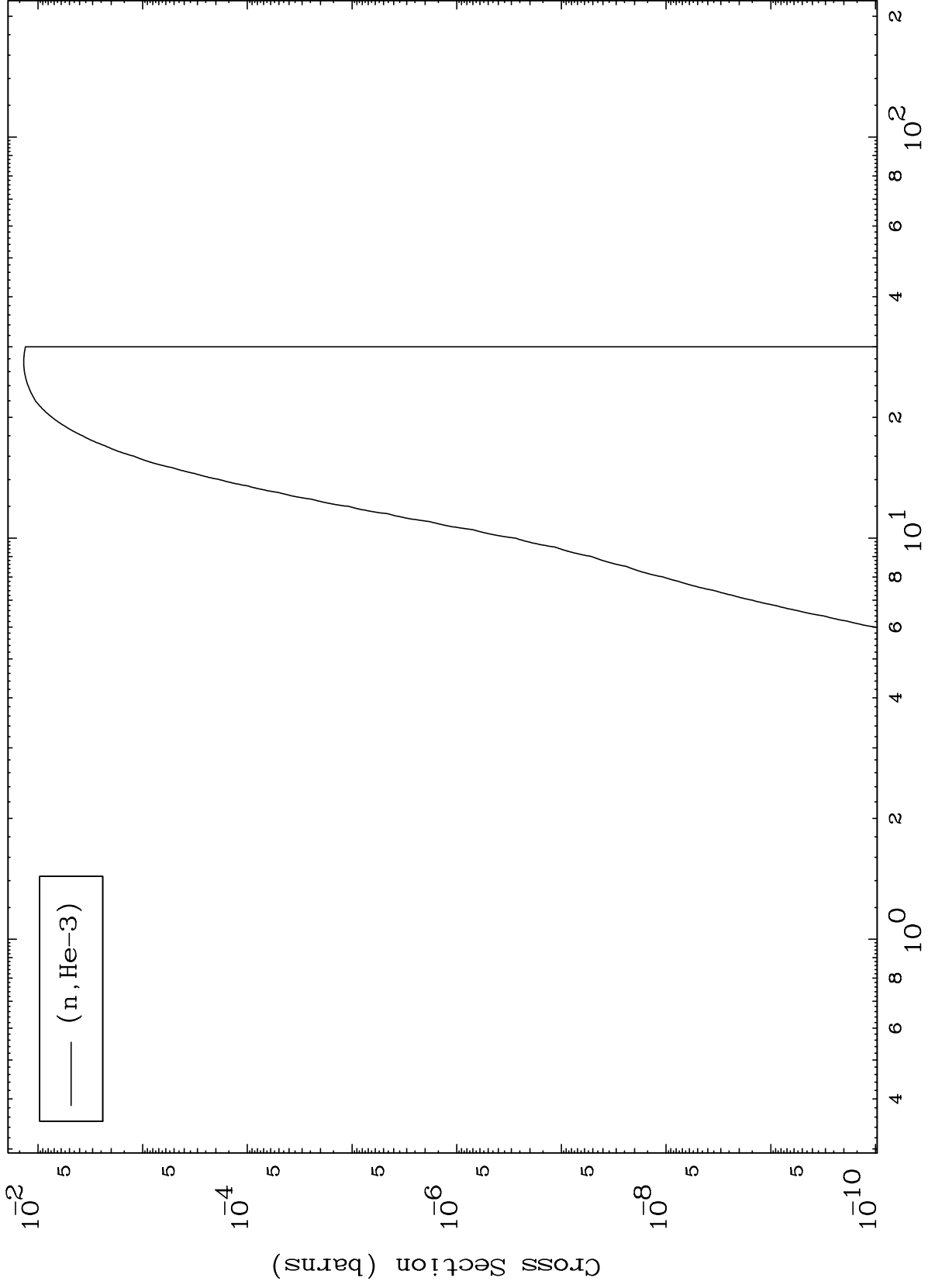
43-Tc-89m



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(n,He3) Levels
293 Kelvin Cross Sections

43-Tc-89m



12

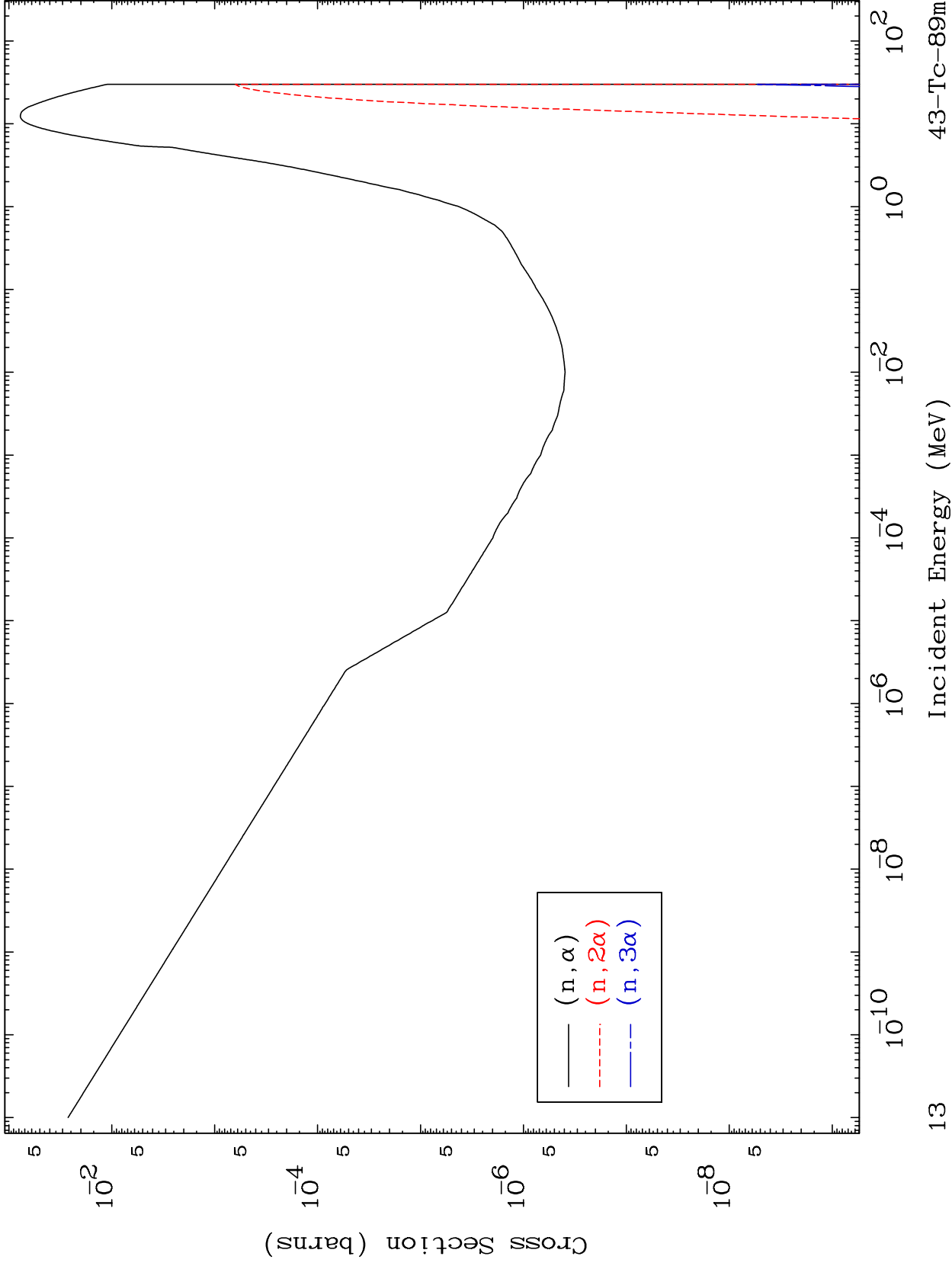
Incident Energy (MeV)

43-Tc-89m

MAT 4296

(n, α) Levels
293 Kelvin Cross Sections

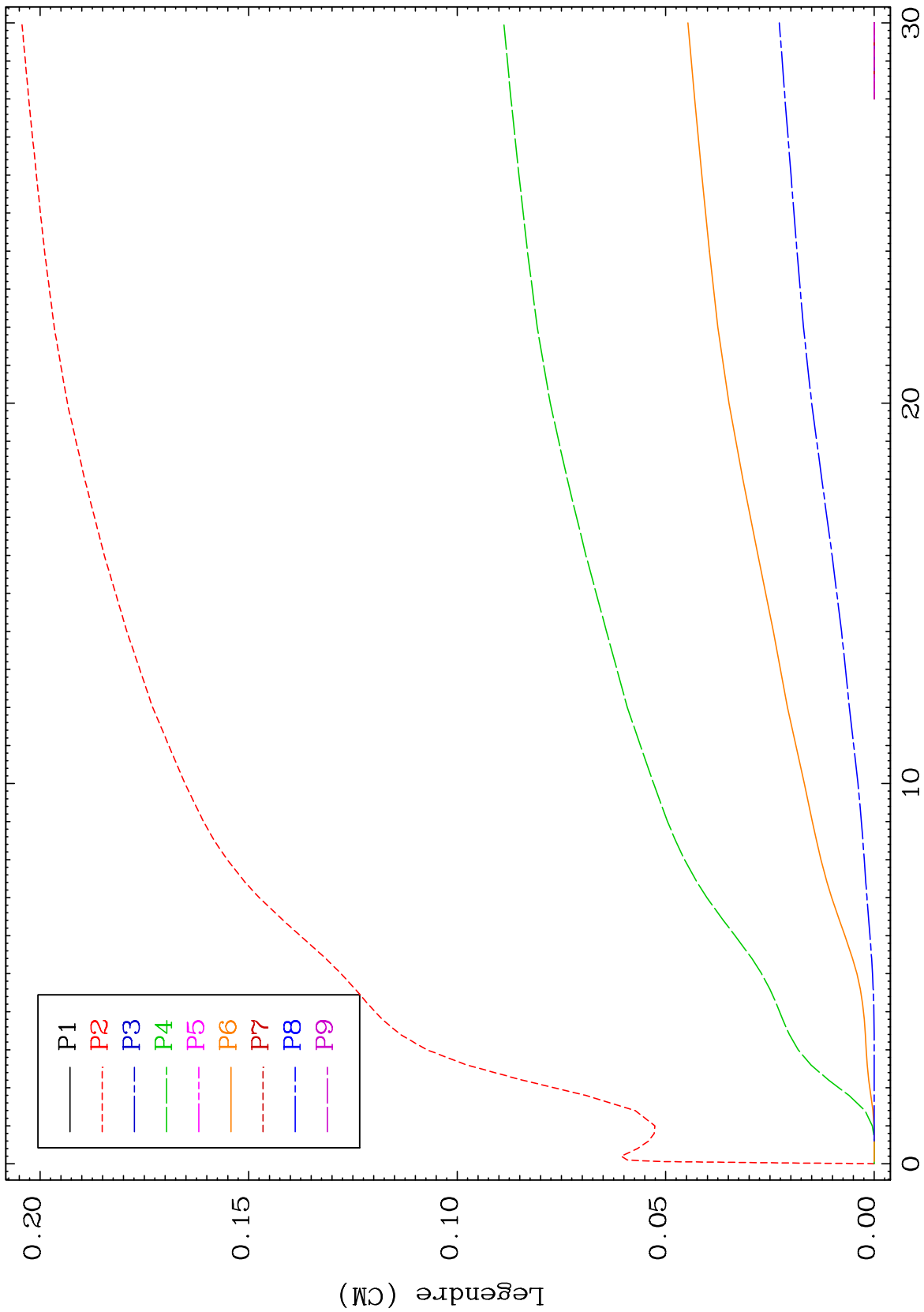
43-Tc-89m



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Elastic Legendre Coefficients

⁴³Tc-89m



14

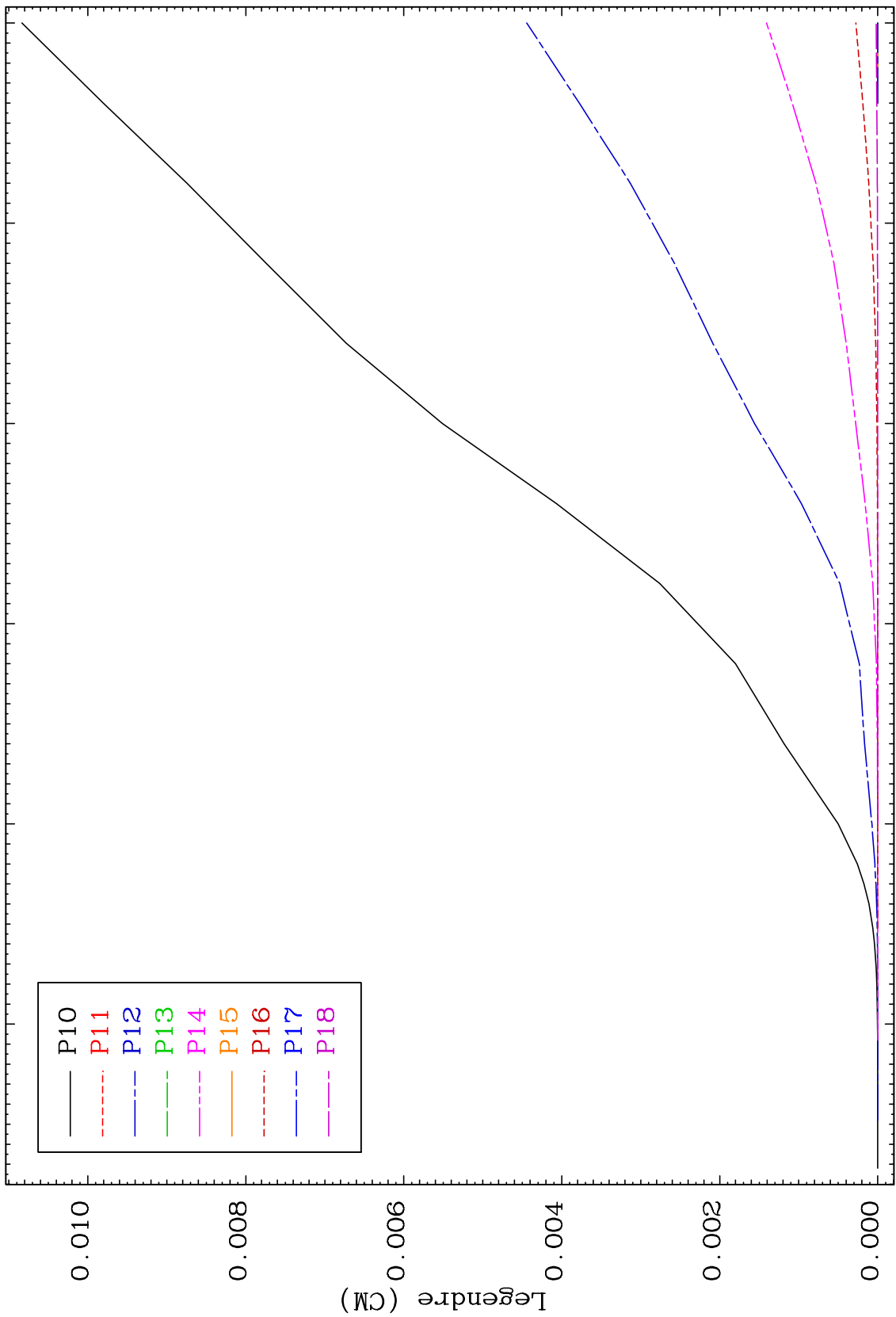
Incident Energy (MeV)

⁴³Tc-89m

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Elastic Legendre Coefficients

43-Tc-89m



15

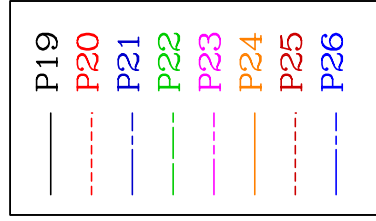
43-Tc-89m

Incident Energy (MeV)

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Elastic Legendre Coefficients

43-Tc-89m



$\times 10^{-6}$

1.0

0.8

Legendre (CM)

0.6

0.4

0.2

0.0

15

20

25

30

16

Incident Energy (MeV)

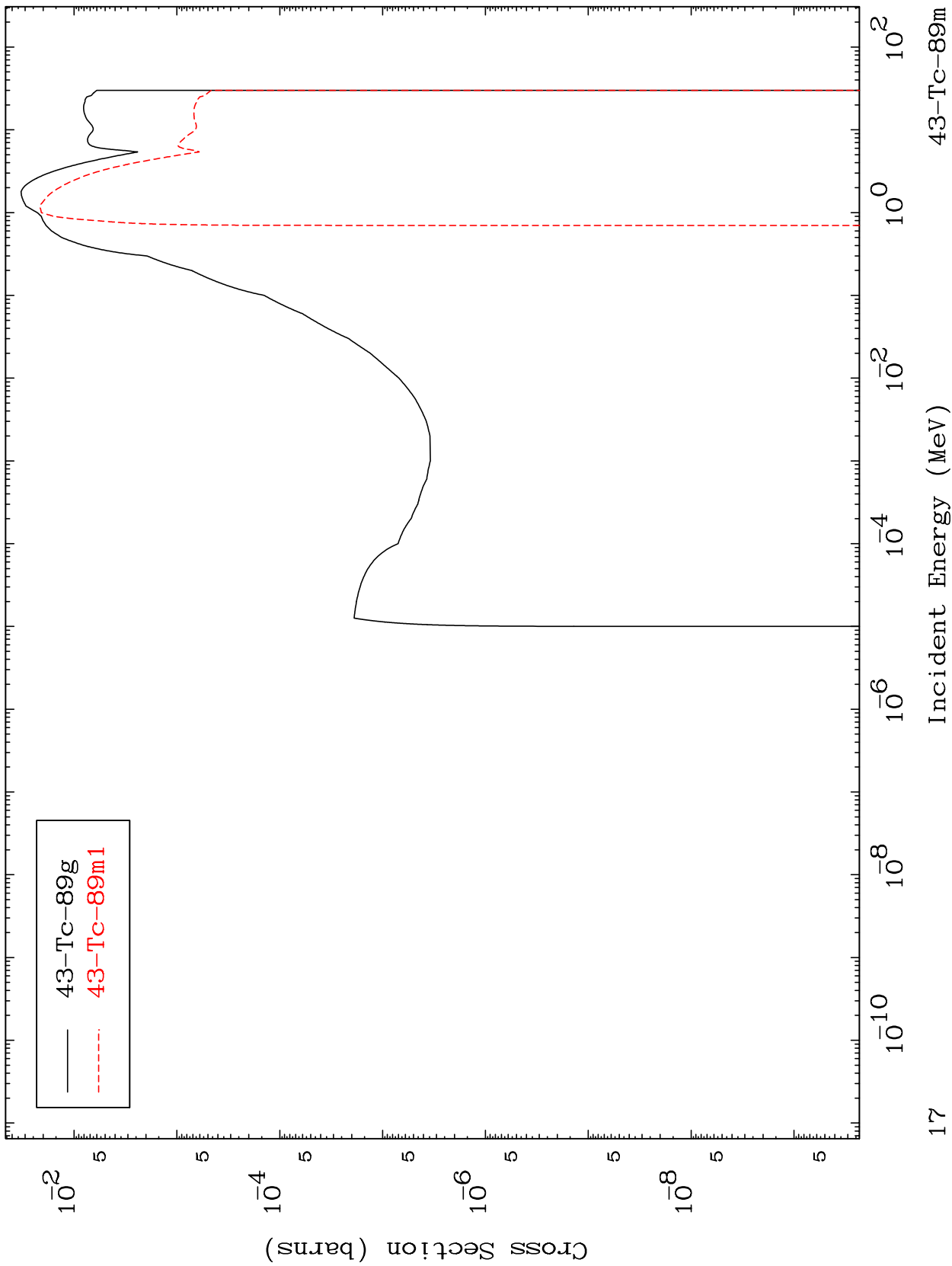
43-Tc-89m



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43-Tc-89m

Inelastic
Radionuclide Production Cross Section

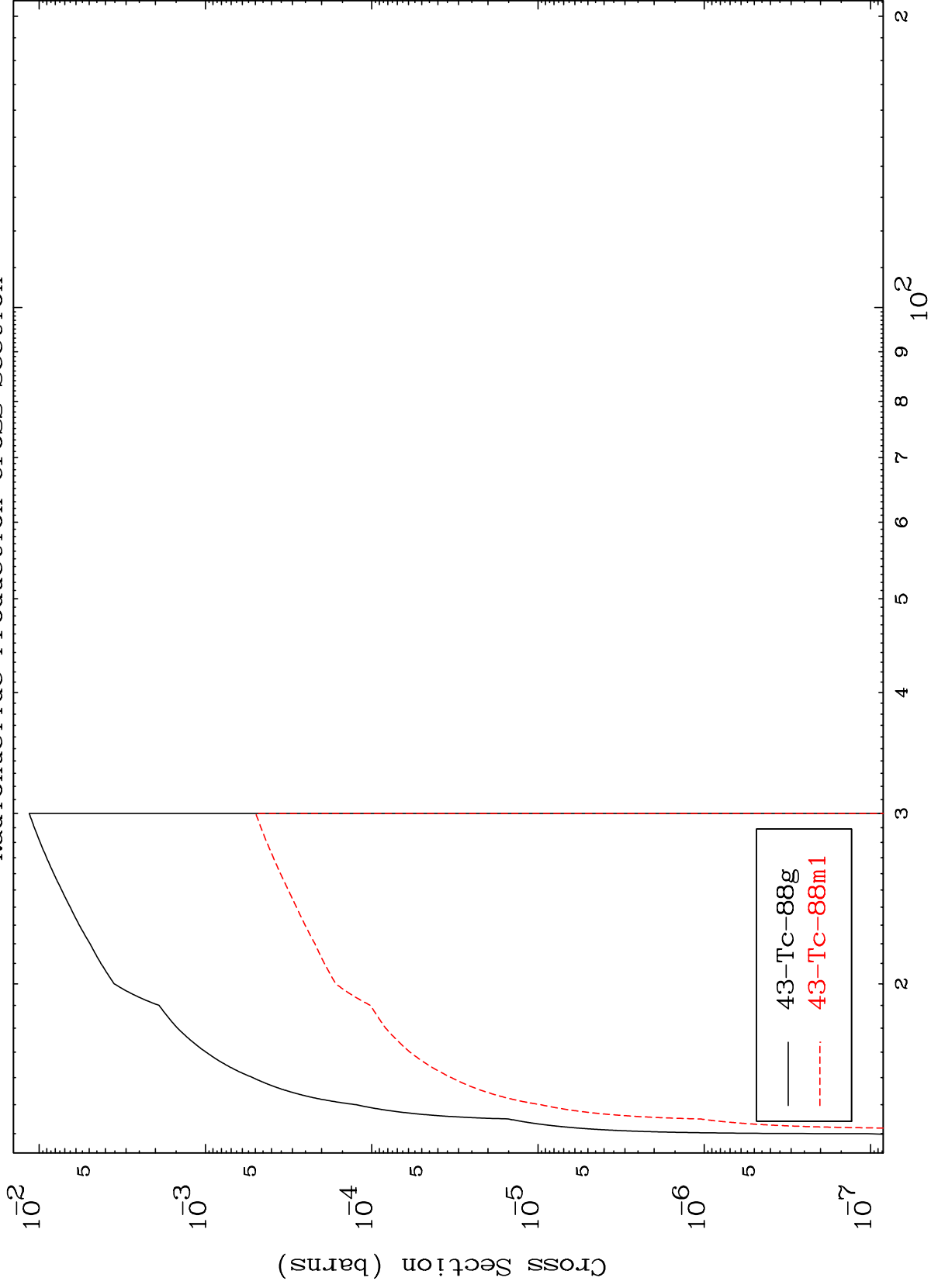


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(n,2n)

⁴³Tc-89m

Radionuclide Production Cross Section



18

Incident Energy (MeV)

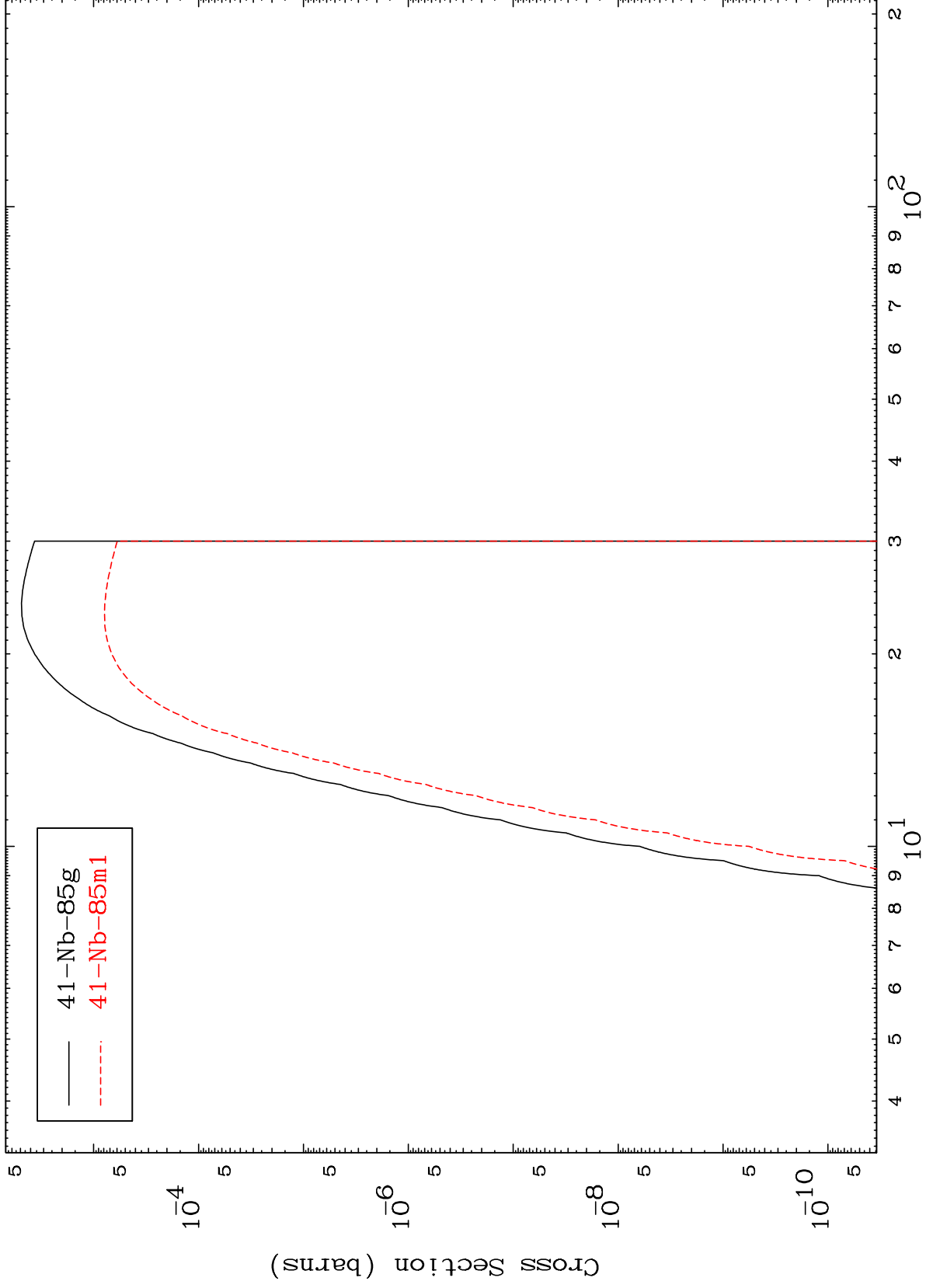
⁴³Tc-89m

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$(n, n') \alpha$

$^{43}\text{Tc-89m}$

Radionuclide Production Cross Section



19

Incident Energy (MeV)

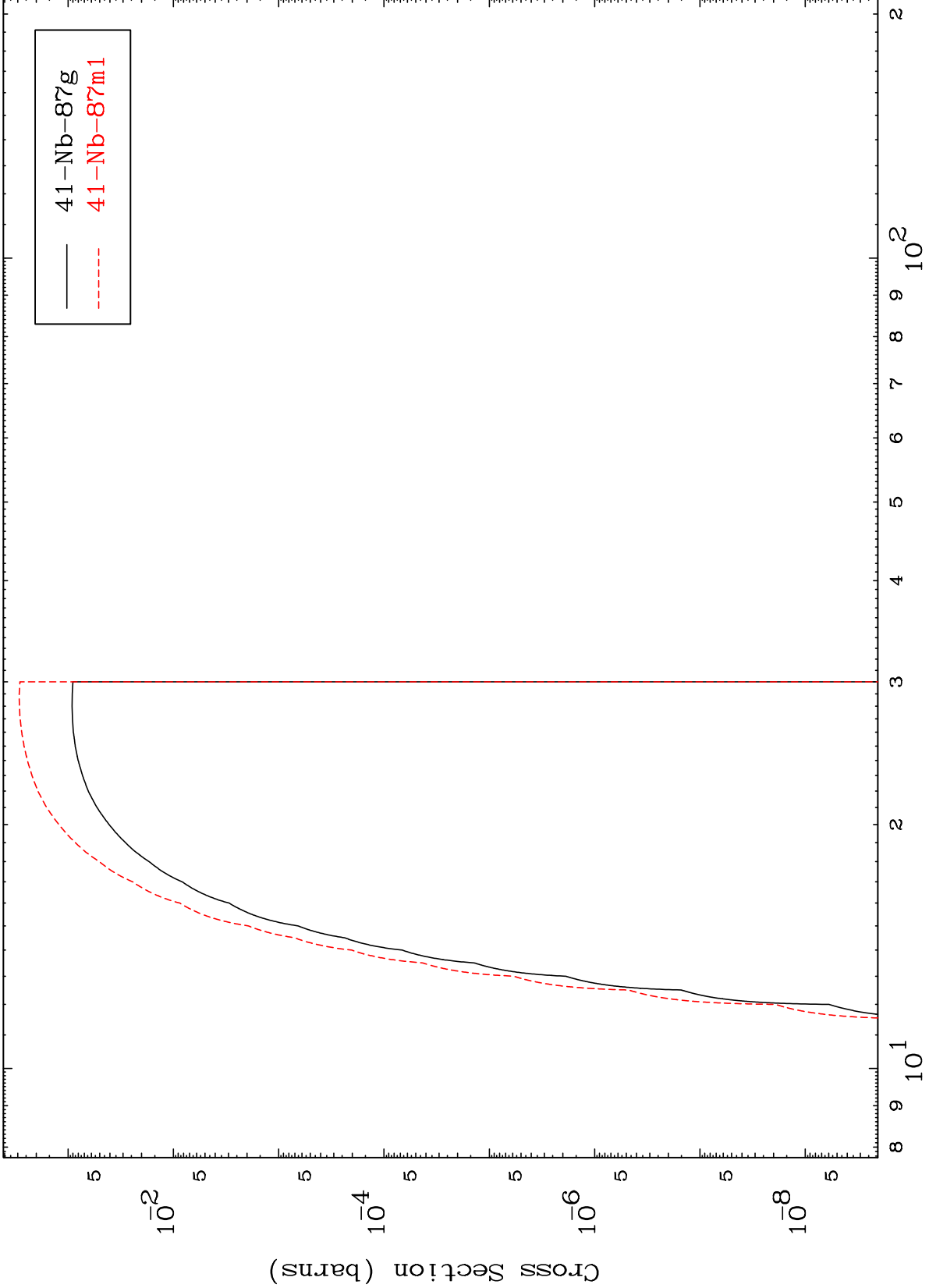
$^{43}\text{Tc-89m}$

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(n,2n) p

43-Tc-89m

Radionuclide Production Cross Section



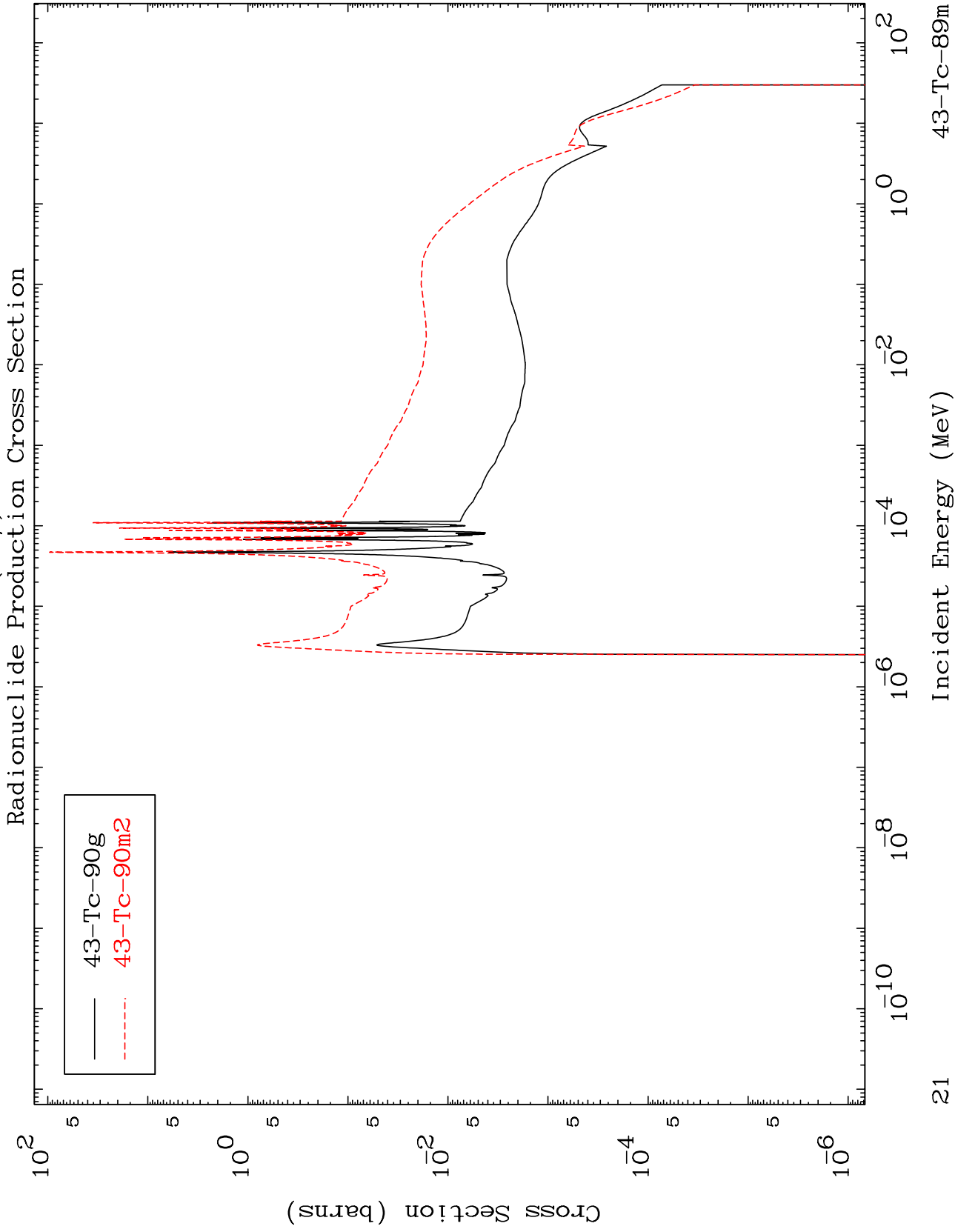
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Incident Energy (MeV)

43-Tc-89m

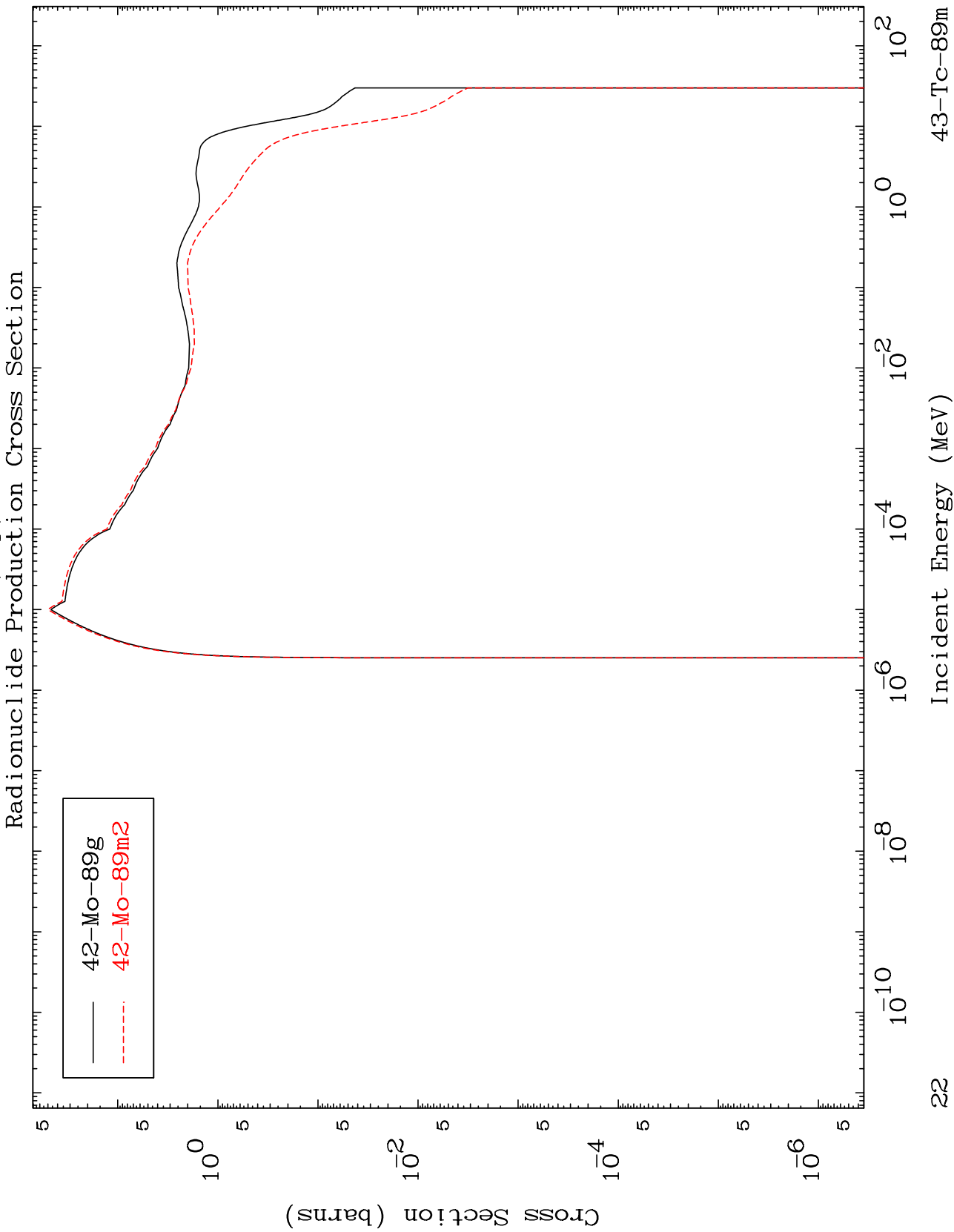
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⁴³Tc-89m



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43-Tc-89m

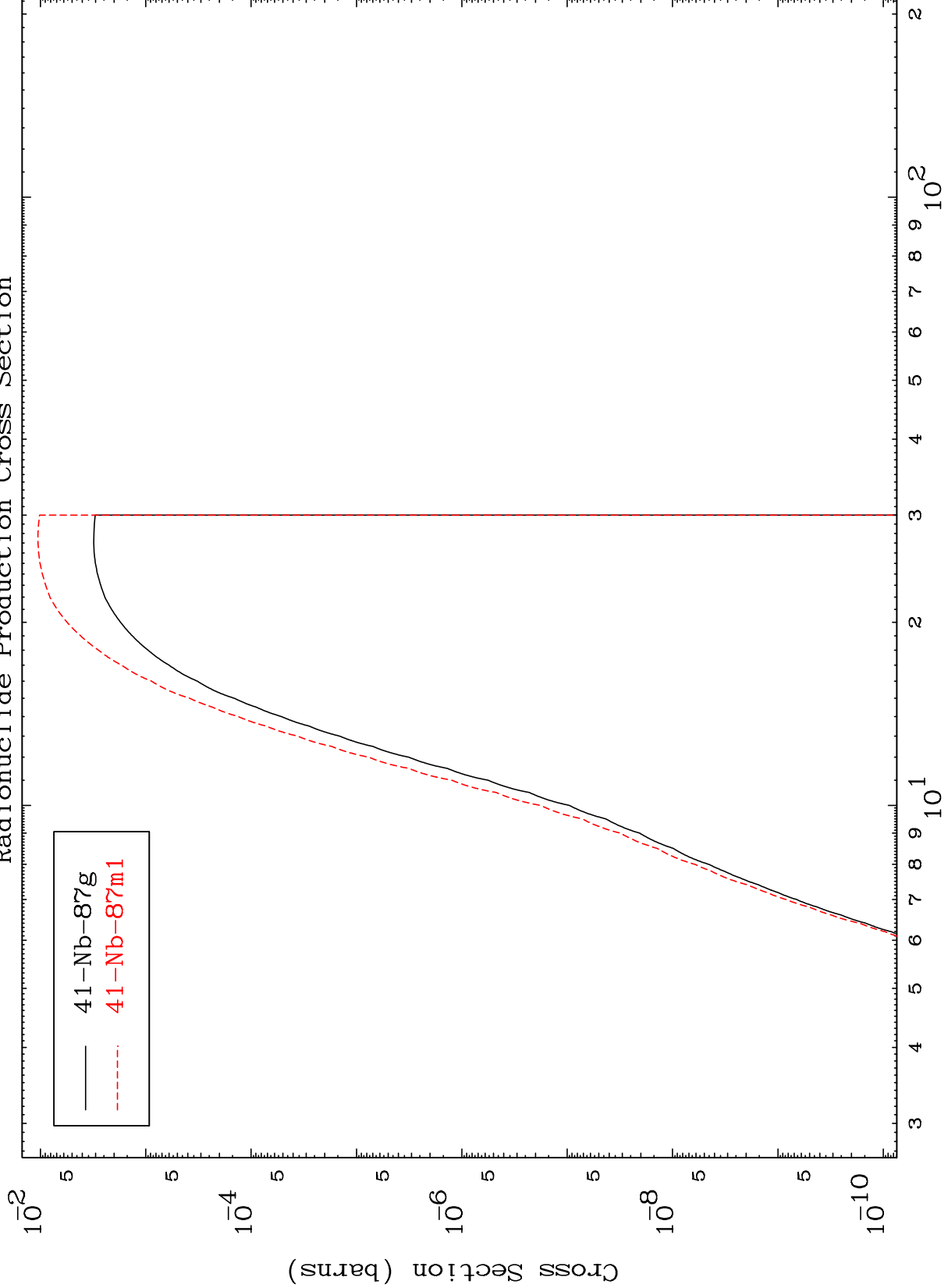


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(n,He-3)

43-Tc-89m

Radionuclide Production Cross Section



41-Nb-87g
41-Nb-87m1

Incident Energy (MeV)

43-Tc-89m

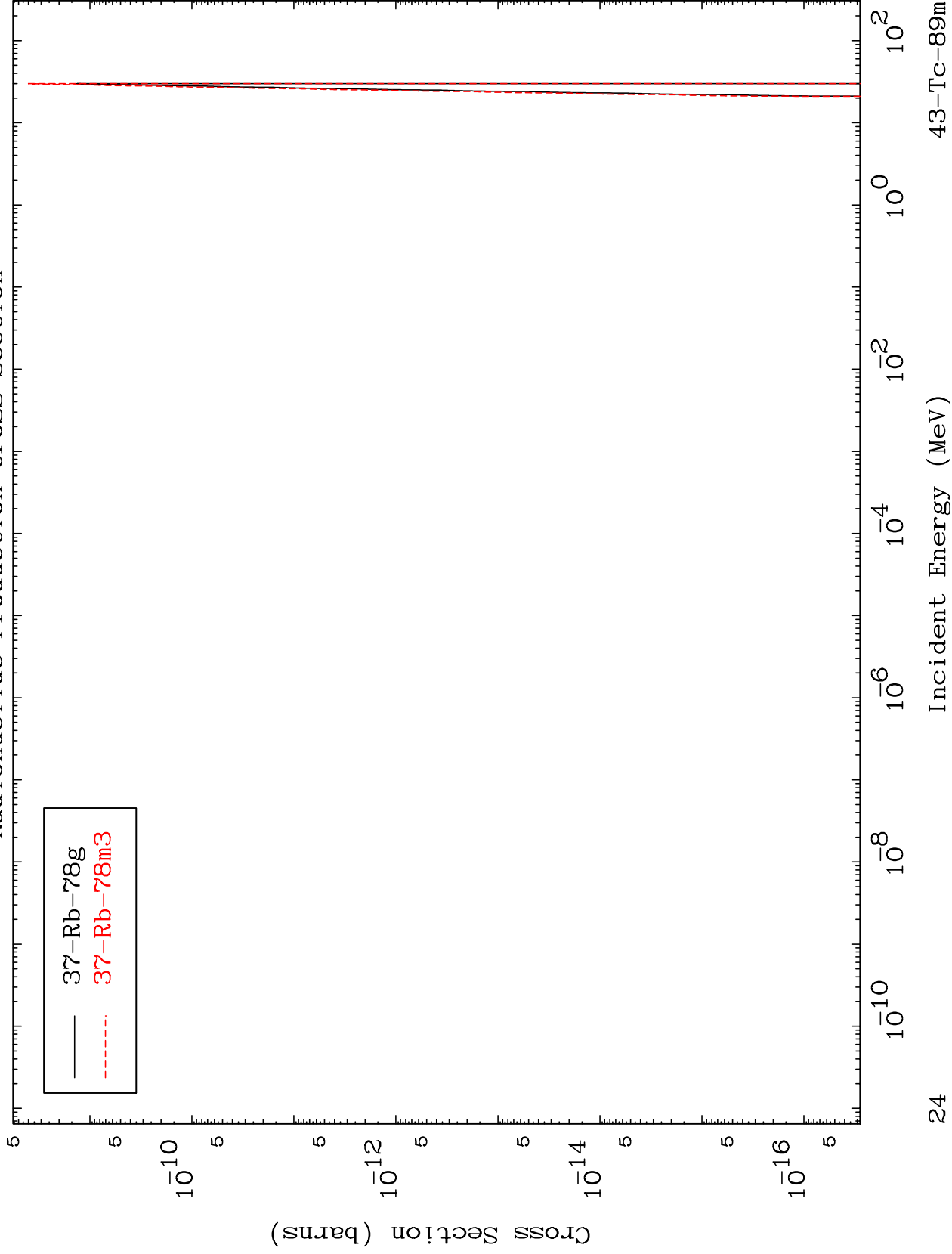
23

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(n, 3 α)

43-Tc-89m

Radionuclide Production Cross Section

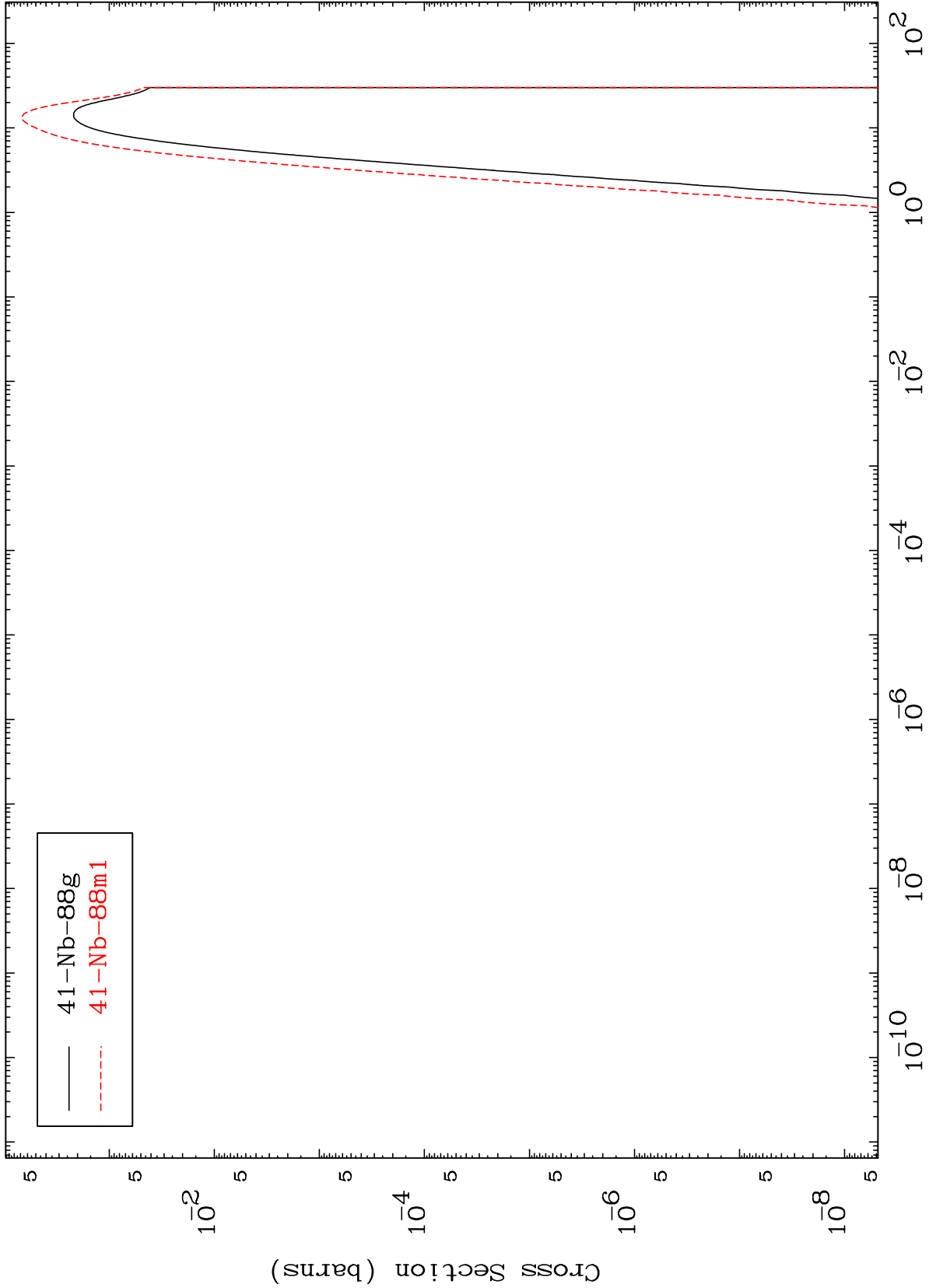


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(n,2p)

43-Tc-89m

Radionuclide Production Cross Section

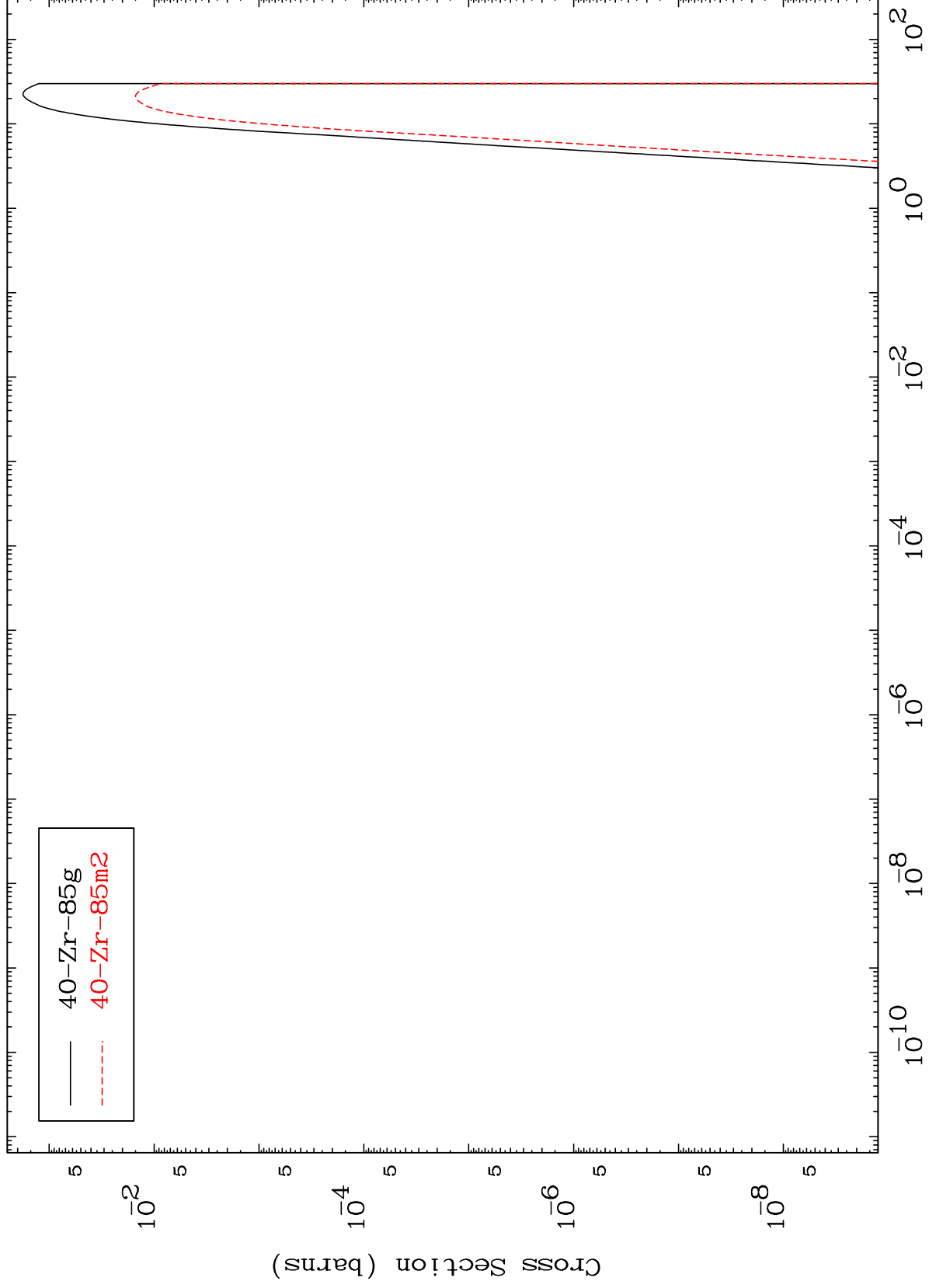


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(n,p) α

$^{43}\text{Tc-89m}$

Radionuclide Production Cross Section



26

Incident Energy (MeV)

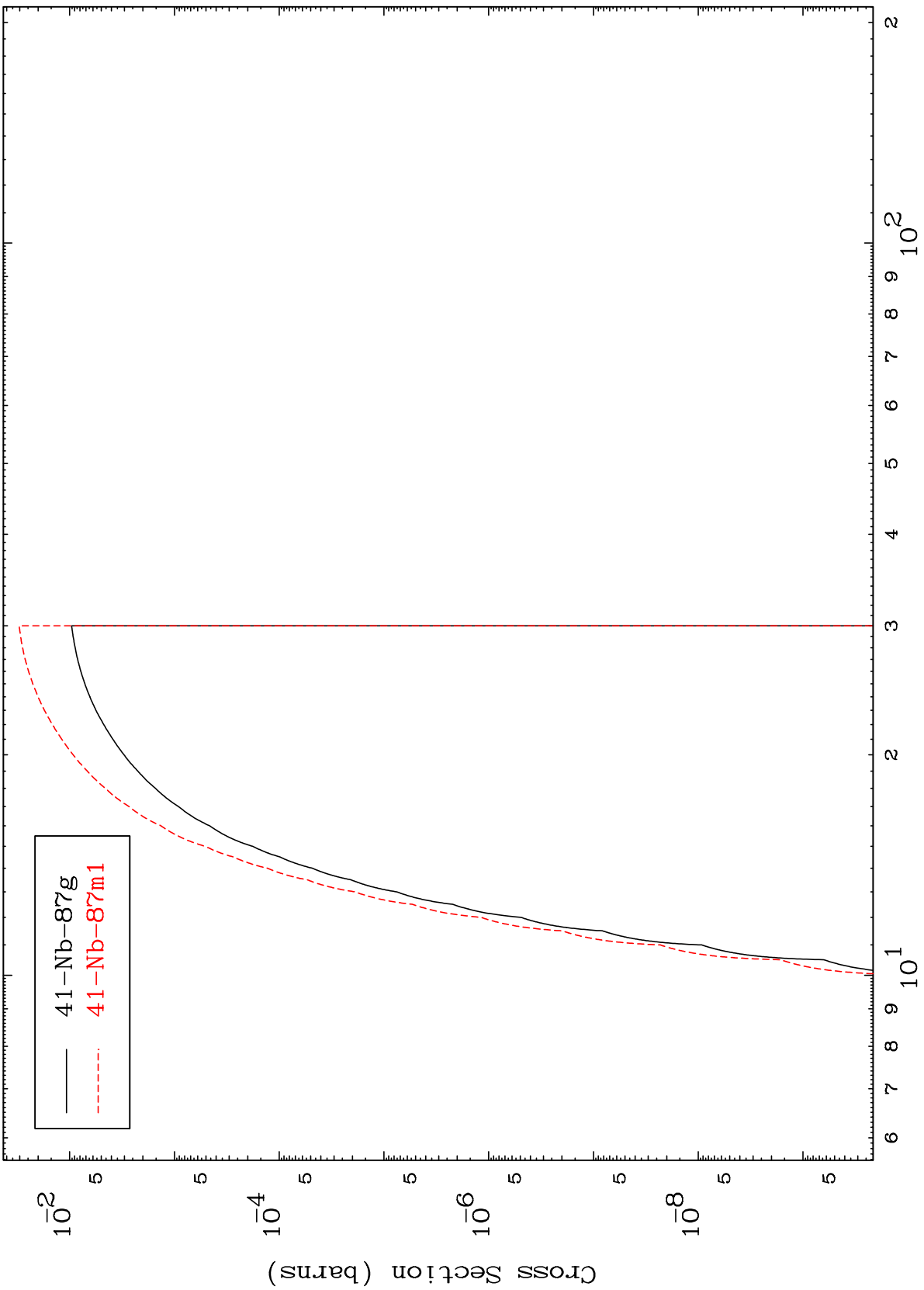
$^{43}\text{Tc-89m}$

MAT 4296

(n,p) d

43-Tc-89m

Radionuclide Production Cross Section



27

Incident Energy (MeV)

43-Tc-89m